

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1                   1.       (Previously presented): A method for generating a page, the method  
2 comprising:  
3                   displaying a first user interface, the first user interface configured to receive  
4 access information associated with a data source declaratively specified by a user during an  
5 interactive session with the first user interface to create software coding for generating portlets;  
6                   displaying a second user interface, the second user interface configured to receive  
7 layout information declaratively specified by the user during the interactive session, the layout  
8 information indicative of a visualization of information from one or more data sources generated  
9 by a portlet within a portal page;  
10                  determining a data source specification based on the access information;  
11                  determining a layout specification based on the layout information;  
12                  generating software coding that creates a portlet based on the data source  
13 specification and the layout specification, the portlet configured to create a visual representation  
14 within the portal page of data specified by the data source specification according to the layout  
15 specification;  
16                  retrieving data for the data source based on the data source specification and the  
17 access information;  
18                  determining a layout for the data within the portlet based on the layout  
19 specification; and  
20                  generating the page using the portlet.

1                   2.       (Original): The method of claim 1, wherein the data source specification  
2 comprises a data type for the data source.

1                   3.       (Original): The method of claim 2, wherein the data type comprises at  
2     least one of a spreadsheet data type, XML data type, SQL data type, web service data type, and a  
3     web page data type.

1                   4.       (Original): The method of claim 1, wherein the access information  
2     comprises a path to the data source.

1                   5.       (Original): The method of claim 4, wherein the path comprises a URL.

1                   6.       (Original): The method of claim 1, wherein the data source specification  
2     comprises a filtering specification that filters data retrieved from the data source.

1                   7.       (Original): The method of claim 1, wherein the layout specification  
2     comprises at least one of a tabular layout, chart layout, news layout, form layout, and bullet  
3     layout.

1                   8.       (Original): The method of claim 1, wherein determining the layout  
2     comprises formatting the retrieved data into the layout.

1                   9.       (Original): The method of claim 1, wherein the portal page comprises a  
2     web-based page.

1                   10.      (Original): The method of claim 1, wherein the page comprises a portlet.

1                   11.      (Previously presented): A method for generating a graphical user interface  
2     (GUI), the method comprising:

3                   providing a data source interface that enables a user to declaratively specify  
4     access information for a data source during one or more interactive sessions with the data source  
5     interface to create software coding for generating user interface objects;

6                   determining a declarative specification for the data source based on access  
7     information provided by the user during an interactive session with the data source interface;

8                   retrieving data for the data source using the access information;

9 providing a layout interface that enables the user to declaratively specify a layout  
10 for the data for the data source during one or more interactive sessions with the layout interface;  
11 determining a layout specification based on the layout provided by the user during  
12 an interactive session with the layout interface, the layout specification indicative of one or more  
13 visualizations of the data for the data source on the graphical user interface; and  
14 generating software coding representing an object that creates a graphical user  
15 interface displaying the retrieved data according to the layout provided by the user based on the  
16 declarative specification for the data source and the layout specification.

1 12. (Original): The method of claim 11, wherein the data source interface  
2 comprises one or more data types that enables a user to specify a data type for the data source.

1 13. (Original): The method of claim 12, wherein the one or more data types  
2 comprise at least one of a spreadsheet data type, XML data type, SQL data type, web service  
3 data type, and a web page data type.

1 14. (Original): The method of claim 12, wherein determining the data  
2 comprises using the specified data type and the access information to retrieve the data for the  
3 specified data source.

1 15. (Original): The method of claim 11, wherein the access information  
2 comprises a URL.

1 16. (Original): The method of claim 11, further comprising providing a  
2 filtering interface including filtering options for the retrieved data that enables a user to  
3 declaratively specify which data to use in the generated GUI.

1 17. (Original): The method of claim 11, wherein the layout interface  
2 comprises one or more layout options that enables the user to declaratively specify a layout type.

1 18. (Original): The method of claim 17, wherein the layout type comprises at  
2 least one of a tabular layout, chart layout, news layout, form layout, and bullet layout.

1                   19.     (Original): The method of claim 17, further comprising providing a layout  
2 type interface that enables the user to specify how the retrieved data should be laid out in the  
3 GUI using the specified layout type.

1                   20.     (Original): The method of claim 11, wherein the data source interface  
2 does not include the access information for the data source before it is declaratively specified by  
3 the user.

1                   21.     (Original): The method of claim 11, wherein the GUI comprises a web-  
2 based page.

1                   22.     (Original): The method of claim 11, wherein the GUI comprises a portlet.

1                   23.     (Previously presented): A method for declaratively generating a page  
2 using an interface configure to create objects that generate one or more visual representation of  
3 data, the method comprising:  
4                   receiving via the interface first input from a user during one or more interactive  
5 sessions with the interface to create objects that generate visual representations of data on a page,  
6 the first input indicative of access information associated with a data source ;  
7                   retrieving data from the data source using the access information;  
8                   determining layout information for data associated with the data source during the  
9 one or more interactive sessions between the user and the interface, the layout information  
10 indicative of one or more visualizations of the data created by an object on a page;  
11                   generating one or more page objects that create displays of information in  
12 response to the one or more interactive sessions between the user and the interface; and  
13                   generating a page using the retrieved data and the layout information.

1                   24.     (Original): The method of claim 23, wherein the declarative specification  
2 comprises a specification of a data type for the data source.

1                   25.     (Original)     The method of claim 23, wherein the access information  
2     comprises a path to the data source.

1                   26.     (Original): The method of claim 25, wherein the path comprises a URL.

1                   27.     (Original): The method of claim 23, wherein the declarative specification  
2     comprises a filtering specification that filters data retrieved from the data source.

1                   28.     (Original): The method of claim 23, wherein the page comprises a web-  
2     based page.

1                   29.     (Original): The method of claim 23, wherein the page comprises a portlet.